

WHAT IS CLAIMED IS:

1. A gas turbine exhaust passage having a wall for defining an exhaust passage for discharging exhaust gas of a gas turbine, wherein at least a portion of said wall is formed of an acoustically transmissive material for allowing a low frequency noise of several tens of Hz or less to pass therethrough sufficiently.
2. The gas turbine exhaust passage according to claim 1, wherein said acoustically transmissive material is made of at least one material selected from the group essentially consisting of a porous material, porous heat insulating material, mesh having a large flow resistance, cloth and film material.
3. The gas turbine exhaust passage according to claim 2, wherein the acoustically transmissive material is supported by a porous plate or frame.
4. A damper system for a gas turbine exhaust passage, comprising a gas turbine exhaust passage for discharging exhaust gas of a gas turbine, an exhaust boiler branched from said gas turbine exhaust passage, and a damper provided at a branch portion between said exhaust boiler and said gas turbine exhaust passage, wherein said damper is made of an acoustically transmissive material that may sufficiently transmit a low frequency noise of several tens of Hz or less.
5. The damper system for a gas turbine exhaust passage,

according to claim 4, wherein said acoustically transmissive material is made of at least one material selected from the group essentially consisting of a porous material, porous heat insulating material, mesh having a large flow resistance, cloth and film material.

6. The damper system for a gas turbine exhaust passage, according to claim 5, wherein the acoustically transmissive material is supported by a porous plate or frame.

7. A gas turbine exhaust passage having a wall for defining an exhaust passage for discharging exhaust gas of a gas turbine, comprising an exhaust duct connected to a gas turbine body through an exhaust diffuser and provided with an internal exhaust silencer, and an exhaust chimney connected to said exhaust duct, wherein at least a portion of said wall is formed of an acoustically transmissive material for allowing a low frequency noise of several tens of Hz or less to pass therethrough sufficiently.

8. A damper system for a gas turbine exhaust passage, comprising an exhaust duct connected to a gas turbine body through an exhaust diffuser and provided with an internal exhaust silencer, a bypass chimney connected to said exhaust duct, an exhaust gas boiler branched at a branch portion from said exhaust duct, and a damper provided between said exhaust gas boiler and said exhaust duct, wherein said damper is formed of an acoustically transmissive material for allowing a low frequency noise of several tens of Hz or less to pass therethrough sufficiently.

9. A gas turbine exhaust passage having a wall for defining an exhaust passage for discharging exhaust gas of a gas turbine, comprising an exhaust duct provided with an exhaust silencer therein and an exhaust passage connected to the exhaust duct, wherein the wall of the exhaust duct has a structure having no gas permeability and acoustic transmissivity,) at least a portion of the wall of the exhaust chimney is formed of an acoustically transmissive material for allowing a low frequency noise of several tens of Hz or less to pass therethrough sufficiently, and a rack is provided to surround and support said exhaust chimney.

10. The gas turbine exhaust passage, according to claim 9, wherein a soundproof panel is attached to at least a portion of the side and top of a frame formed said rack.